

## CLAIMS

1. Method for allocating radio resources for the establishment of an outgoing call originating from a mobile terminal of a first system for radiocommunications with mobiles having a given radio interface and a mutual help channel, via a base station of a second system for radiocommunications with mobiles having a given radio interface which is incompatible with the radio interface of the first system, wherein the base station carries out the steps of:
- a) monitoring said mutual help channel of the first system; and
  - b) in case of detection, by the base station, of a given pattern transmitted by the mobile terminal on said mutual help channel, allocating a traffic channel emulating the radio interface of the first system, for communication with the mobile terminal.
2. Method according to Claim 1, wherein, the given pattern is transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity, and wherein step a) comprises:
- monitoring said mutual help channel during given periodic timeslots;
  - measuring the power level at the frequency of said mutual help channel during said given periodic timeslots;
  - if this power level is greater than a given threshold, assigning a control logical channel dedicated to searching for the given pattern on the said mutual help channel, the timeslots of said control logical channel having a second periodicity which is not proportional to said first periodicity; and
  - monitoring said mutual help channel during the timeslots of said control logical channel, while taking into account the characteristics of the radio interface of the first system.
3. Method according to Claim 2, wherein said given periodic timeslots consist of at least some of the timeslots of a broadcasting logical

channel set up on a downlink control physical channel specific to the base station.

4. Method according to Claim 2 wherein the mobile terminals  
5 (TR2) of the second system are silent during said given periodic timeslots.

5. Method according to Claim 1, wherein the given pattern is a  
synchronization sequence inserted periodically into the frame of a traffic  
physical channel of the first system.

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6. Method according to Claim 1, wherein in step b), the allocation  
of the traffic channel is automatic.

7. Method according to Claims 1, wherein in step b), the allocation  
15 of the traffic channel is controlled by an operator.

8. Base station, comprising means for allocating radio resources  
for the establishment of an outgoing call originating from a mobile terminal  
of a first system for radiocommunications with mobiles having a given radio  
20 interface and a mutual help channel, via a base station of a second system  
for radiocommunications with mobiles having a given radio interface which  
is incompatible with the radio interface of the first system, wherein said  
means for allocating comprise:

a) means for monitoring said mutual help channel of the first  
25 system; and

b) means for allocating a traffic channel emulating the radio  
interface of the first system, for communication with the mobile terminal in  
case of detection of a given pattern transmitted by the mobile terminal on  
said mutual help channel.

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9. Base station according to Claim 8, wherein, the given pattern  
being transmitted periodically by the mobile terminal on the mutual help  
channel with a first periodicity, the means for monitoring comprise:

- means for monitoring said mutual help channel during given periodic timeslots;

- means for measuring the power level at the frequency of said mutual help channel during said given periodic timeslots;

5       - means for assigning a control logical channel dedicated to searching for the given pattern on the said mutual help channel, if the power level is greater than a given threshold, wherein said control logical channel has timeslots having a second periodicity which is not proportional to said first periodicity; and

10       - means for monitoring said mutual help channel during the timeslots of said control logical channel, while taking into account the characteristics of the radio interface of the first system.

15       10. System for radiocommunications with mobiles having a first given radio interface and comprising at least one base station, wherein the base station has means for allocating radio resources for the establishment of an outgoing call originating from a mobile terminal of another system for radiocommunications with mobiles having a second given radio interface which is incompatible with said first given radio  
20       interface, and having a mutual help channel,

and wherein the means for allocating comprise:

a) means for monitoring said mutual help channel of the other system; and

25       b) means for allocating a traffic channel emulating the radio interface of the other system, for communication with the mobile terminal in case of detection of a given pattern transmitted by the mobile terminal on said mutual help channel.

30       11. System according to Claim 10, wherein, the given pattern being transmitted periodically by the mobile terminal on the mutual help channel with a first periodicity, the means for monitoring comprise:

- means for monitoring said mutual help channel during given periodic timeslots;

- means for measuring the power level at the frequency of said mutual help channel during said given periodic timeslots;

- means for assigning a control logical channel dedicated to searching for the given pattern on the said mutual help channel, if the  
5 power level is greater than a given threshold, wherein said control logical channel has timeslots having a second periodicity which is not proportional to said first periodicity; and

- means for monitoring said mutual help channel during the timeslots of said control logical channel, while taking into account the  
10 characteristics of the radio interface of the system.

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